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Bulletins 251-271 OK - RBS 4/10/42

#256 - 42d Ann. Rpt. - 1930
#262 - 43d Ann. Rpt. - 1931
#270 - 44th Ann. Rpt. - 1932
} OK - RBS 4/24/42

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[Bulletin 258] ?

RESULTS OF SEED TESTS

Made July 1, 1930, to June 30, 1931

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This report contains the results of the inspection for the State Department of Agriculture of three hundred eighty-five official samples collected throughout the State during the period from July 1, 1930, to June 30, 1931. These were analyzed and the results mailed to the retail dealers. In addition to these official samples, fifty-two private samples were analyzed, making a total of four hundred thirty-seven samples inspected.

The seed law does not prohibit the sale of poor seed but it does require that all seed be labelled to show its quality. The buyer is therefore protected. The purpose of the seed inspection work is to determine, within reasonable limits, whether a sample of seed is as good as it is guaranteed to be.

A certain amount of variation is to be expected in comparing the results of two or more purity anaylses. For this reason a "tolerance" or variation is allowed in accordance with the following formula, applied to the guarantee given. The sample is considered as being made up of two parts, the one being the pure seed and the other the balance of the sample. The tolerance in per cent allowed for each part is two-tenths of 1 per cent plus 20 per cent of the lesser part. For instance, if a sample is guaranteed 99.60% pure seed, it may test as low as 99.32% or as high as 99.88% and would be "satisfactory." In the same way, a sample guaranteed 92.80% may test as low as 91.17% or as high as 94.43% and be "satisfactory." If a sample is found to be better than the highest figure in the tolerance, it is marked "Above" in this bulletin; if lower than the lowest figure, the actual figure is reported.

A wider tolerance for germination than for purity is allowed between the results of the test and the guarantee, as follows:

Guarantee	*Allowable variation*
%	%
90 or over	6
80 or over but less than 90	7
70 or over but less than 80	8
60 or over but less than 70	9
Less than 60	10

Accordingly, a sample guaranteed 92% germination is "satisfactory" if it tests 86% to 98%. A sample guaranteed 85% may fall as low as 78% or as high as 92%. If a sample tests higher than the per cent of variation allowed it is marked "Above" in this bulletin or, if it tests below the variation allowed, the actual figure is reported.

The summary table on the last page will show the general results of the seed inspection work for the year ending June 30, 1931. This year a higher percentage of the samples were found "satisfactory" or better in both purity and germination, as follows:

	Found "Satisfactory" or better	
	Purity	Germination
1930	86%	80%
1931	90%	82%

Purity and Germination Standards — Average of Ten States*

New Hampshire has no purity or germination standards. There are, however, many producers and consumers who desire to know what reasonable purity and germination may be expected for various seeds. The following table, which averages the standards of ten different states, has been prepared to supply this information.

* Published in various reports and bulletins of Alabama, Connecticut, Indiana, New York, North Carolina, Oklahoma, Oregon, South Dakota, Tennessee, and Virginia.

Field Crops	Purity %	Germination %
Alfalfa	96	83
Canada Blue Grass	88	50
Kentucky Blue Grass	85	50
Alsike Clover	93	78
Crimson Clover	97	85
Red Clover	94	85
Sweet Clover	95	88
White Clover	93	77
Field Corn	99	92
Meadow Fescue	95	85
Red Fescue	94	80
Sheep's Fescue	94	80
Common Millet	94	86
German Millet	94	86
Hungarian Millet	94	86
Japanese Millet	92	86
Oats	98	90
Orchard Grass	79	73
Field Peas	97	93
Red Top	90	80
Rye	98	90
Perennial Rye Grass	95	85
Italian Rye Grass	95	80
Timothy	97	88
Tobacco	98	78

Vegetables	Germination %
Asparagus	78
Beans	90
Beets	82
Cabbage	85
Carrot	75
Cauliflower	75
Celery	60
Sweet Corn	80
Cucumber	85
Lettuce	84
Melon	84
Onion	80
Parsley	64
Parsnip	62
Pumpkin	80
Radish	85
Spinach	75
Squash	85
Tomato	80
Turnip	85

SEED INSPECTION, 1931

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guaranteed	Found	Guaranteed
7994	Alfalfa (Grimm) ..... P. W. Bragg, Farmington	S	99.70	S	93.70
7966	Alfalfa (Grimm) ..... R. L. Costello, Portsmouth	S	99	S	95
7887	Alfalfa (Idaho Grimm, Pine Tree) .... J. Cushing Co., Nashua	S	99.80	S	92
8123	Alfalfa (XXX) ..... Holbrook Grocery Co., Keene	S	99.42	S	94
8158	Alfalfa (Grimm, Idaho) ..... E. C. & W. L. Hopkins, Inc., Greenfield	S	99.44	A	70
7979	Alfalfa (Grimm, Idaho, 27161) ..... Merrimack Farmers' Exc., Inc., Derry	S	99.75	A	82
8036	Alfalfa (Grimm, Idaho) ..... Frank Pearson, Stratham	S	99.70	A	71
7963	Alfalfa (2065, State Sealed & Certified Grimm) ..... S. A. Schurman & Son, Portsmouth	S	99.76	A	77
7865	Alfalfa (27177, Genuine Grimm) ..... John B. Varick Co., Manchester	S	99.48	S	94
8132	Alsike (2685, Liberty) ..... Abbott Grocery Co., Keene	S	96	S	88
8062	Alsike ..... Belknap County Farmers' Exc., Laconia	A	92	S	90
8085	Alsike (5157, Liberty) ..... Chase Grain Mill, Plymouth	S	96.50	S	87
8185	Alsike (Pan American) ..... F. W. Clark, Wilton	S	97.50	S	90
8247	Alsike (271, Super) ..... Clark & Richardson, Inc., Lisbon	S	96	A	90
8243	Alsike (21878, Pine Tree) ..... G. F. Clement & Son, Lisbon	S	98.35	S	94
8025	Alsike (5157, Liberty) ..... Freeman Corson, Rochester	S	96.50	S	87
8210	Alsike (2155, Ace) ..... G. B. Currier Co., Inc., Colebrook	S	95.80	S	93
7901	Alsike (21995, Ace) ..... J. Cushing Co., Nashua	S	95	S	90
8234	Alsike (Pan American) ..... The Depot Store, Littleton	82.09	97	67.5	90
7952	Alsike (Pan American) ..... S. A. Dow & Son, North Hampton	S	97.69	S	90
7980	Alsike (Pan American) ..... W. E. Dunbar Sons, Manchester	S	97	S	90
8173	Alsike (White Mtn., Extra Fancy) .... J. H. Fitzgerald, East Jaffrey	S	97	79	93
8002	Alsike (Pan American) ..... E. C. Foss & Co., Rochester	S	98	69.5	90
8141	Alsike ..... Goodnow, Derby & Harlow, Henniker	S	94	70	86
8094	Alsike (5395, Liberty) ..... C. J. Goss, Lakeport	S	97.10	A	85
7894	Alsike (21946) ..... Hill Hardware & Paint Co., Nashua	A	92	S	90
8159	Alsike (21930, Pine Tree) ..... E. C. & W. L. Hopkins, Inc., Greenfield	S	98.15	A	83
8117	Alsike (Pan American) ..... Hosmer Brothers, Tilton	S	97	S	90

A=Above S=Satisfactory

SEED INSPECTION, 1931 — Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guaranteed	Found	Guaranteed
8119	Alsike (Pan American) ..... Hosmer Brothers, Tilton	S	97.97	S	83
8072	Alsike ..... E. J. Keegan & Co., Franklin	S	95	28	90
7930	Alsike (21935, Pine Tree) ..... Merrimack Farmers' Exc., Inc., Manchester	S	98	S	94
7905	Alsike (Pan American) ..... Nashua Grain Co., Nashua	S	97	S	90
8009	Alsike (Eureka) ..... F. W. Neal & Co., Dover	S	98	72.5	90
7973	Alsike (Pan American) ..... W. O. Patten, Londonderry	S	98.36	S	90
8236	Alsike (Pan American) ..... Pike & Gale, Littleton	S	97.50	S	90
8150	Alsike (21987, Ace) ..... W. N. Potter Grain Stores, Inc., Winchester	S	94.45	S	88
8048	Alsike (Pan American) ..... Rand & Dearborn, Laconia	S	97	S	90
8047	Alsike (Pan American) ..... H. C. Sanborn, Laconia	S	97.70	S	90
7991	Alsike (Ace) ..... J. H. Seavey, Dover	S	94.45	A	85
8218	Alsike (2155, Ace) ..... F. B. Spaulding Co., Lancaster	S	95.80	S	93
8057	Alsike (Liberty, 2682) ..... C. P. Stevens Co., Franklin	S	97.04	S	89
8019	Alsike ..... Strafford Co., Grain Mill, Rochester	A	92	S	90
7917	Alsike (21934, Ace) ..... Thompson & Hoague Co., Concord	S	95.25	S	90
8030	Alsike ..... A. J. Turcotte, Newmarket	S	98	28	90
7871	Alsike (21933, Pine Tree) ..... John B. Varick Co., Manchester	S	98.30	S	94
8200	Barley (Hygrade, 6-rowed) ..... F. P. Brown, Whitefield	S	99	S	97
8080	Barley (Hygrade, 6-rowed) ..... Chase Grain Mill, Plymouth	S	99	S	97
8162	Barley (Bald) ..... Hopkins Bros. & Belcher, Greenfield	S	90.15	55.5	90
7981	Barley (71355, 6-row) ..... Merrimack Farmers' Exc., Inc., Derry	S	99.28	S	96
8051	Barley (744, Western 6-row) ..... J. H. Morrill, Laconia	S	99	S	96
7989	Barley (6-row) ..... F. W. Neal & Co., Dover	S	99	S	90
8101	Barley ..... C. N. Roberts, Meredith	S	98	S	90
8012	Barley (2-row) ..... J. H. Seavey, Dover	S	99	S	98
8219	Barley (6-row) ..... F. B. Spaulding Co., Lancaster	S	98	S	90
7912	Barley (71204, 6-row) ..... Thompson & Hoague Co., Concord	S	99.41	S	91
7881	Barley (5452, 6-row, Fancy Selected) ..... John B. Varick Co., Manchester	S	98	S	92
7942	Barley (6-rowed) ..... W. A. Young, Exeter	S	97.50	S	95

A=Above S=Satisfactory

SEED INSPECTION, 1931 — Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guaranteed	Found	Guaranteed
7939	Bluegrass, Kentucky Hilliard & Kimball, Exeter	S	78	43.5	70
7933	Bluegrass, Kentucky (032156) Manchester Hardware Co., Manchester	S	82.70	S	67
7897	Bluegrass, Kentucky Nashua Grain Co., Nashua	S	80	57	90
8013	Bluegrass, Kentucky (32385) J. H. Seavey, Dover	S	82.80	50.5	74
7947	Bluegrass, Kentucky W. A. Young, Exeter	S	83	51.5	70
8233	Buckwheat, Japanese Holbrook Grocery Co., Woodsville	S	99.23	S	96
7916	Buckwheat, Japanese (7697) Thompson & Hoague Co., Concord	S	99.85	S	94
7877	Buckwheat, Japanese (5298) John B. Varick Co., Manchester	S	98	S	90
7913	Canada Field Peas (85236) Thompson & Hoague Co., Concord	S	99.50	S	85
7879	Canada Field Peas (3153) John B. Varick Co., Manchester	S	98	S	92
7962	Millet, Golden S. A. Schurman & Son, Portsmouth	S	98.30	73.5	90
8146	Millet, Hungarian (2918) P. E. Belisle, Hillsborough	S	99	S	88
8068	Millet, Hungarian Belknap Co. Farmers' Exc., Laconia	94.50	98.36	S	80
7985	Millet, Hungarian Bell Hardware Co., Derry	S	99.16	S	90
7995	Millet, Hungarian P. W. Bragg, Farmington	A	98	S	88
8112	Millet, Hungarian O. A. Brown, Ashland	S	99	70	84
8169	Millet, Hungarian W. A. Bryer & Co., Peterboro	S	98.10	S	92
8083	Millet, Hungarian (3088) Chase Grain Mill, Plymouth	A	99	S	88
8248	Millet, Hungarian (30700) Clark & Richardson, Inc., Lisbon	97.81	99.40	S	90
8023	Millet, Hungarian (2045) Freeman Corson, Rochester	S	98.93	S	88
8209	Millet, Hungarian (47104) G. B. Currier Co., Inc., Colebrook	S	98.44	S	86
8138	Millet, Hungarian (47101) J. Cushing Co., Keene	S	99.20	S	90
8189	Millet, Hungarian (4792) J. Cushing Co., Milford	S	98.18	S	90
8192	Millet, Hungarian (47113) J. Cushing Co., Milford	S	97	S	82
7903	Millet, Hungarian (47-54) J. Cushing Co., Nashua	S	98.92	S	85
7969	Millet, Hungarian (Fullworth) J. Cushing Co., Portsmouth	S	97.88	70	96
8235	Millet, Hungarian The Depot Store, Littleton	97.70	99.00	S	90
7954	Millet, Hungarian (Fancy) S. A. Dow & Son, North Hampton	87.74	99.06	81	90
7982	Millet, Hungarian (Fancy) W. E. Dunbar Sons, Manchester	S	98.74	S	90
8140	Millet, Hungarian (Fancy) Goodnow, Derby & Harlow, Henniker	S	99	75.5	90

A=Above S=Satisfactory

SEED INSPECTION, 1931 — Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guaranteed	Found	Guaranteed
8042	Millet, Hungarian (2434, Fancy) ..... John H. Griffin, Newmarket	A	99	S	90
8124	Millet, Hungarian ..... Holbrook Grocery Co., Keene	S	99.40	S	90
8226	Millet, Hungarian (47116)..... Holbrook Grocery Co., Woodsville	S	97.82	S	86
8155	Millet, Hungarian (47114) ..... E. C. & W. L. Hopkins, Inc., Greenfield	S	99.40	S	90
8108	Millet, Hungarian ..... Meredith Grain Co., Meredith	97.67	99	75	90
7918	Millet, Hungarian (Fancy) ..... J. J. Moreau & Son, Manchester	S	99	52	90
8052	Millet, Hungarian ..... J. H. Morrill, Laconia	S	99.40	S	90
7976	Millet, Hungarian ..... W. O. Patten, Londonderry	S	99	S	90
7910	Millet, Hungarian (Fancy) ..... Peterson Hardware Co., Nashua	97.24	99	79.5	90
8151	Millet, Hungarian (4792) ..... W. N. Potter Grain Stores, Inc., Winchester	S	98.18	56	90
7965	Millet, Hungarian (Fancy) ..... S. A. Schurman & Son, Portsmouth	S	98.74	S	90
8204	Millet, Hungarian (47104) ..... Frank Smith Co., Lancaster	S	98.44	S	86
8056	Millet, Hungarian ..... C. P. Stevens Co., Franklin	97.64	99	S	90
8018	Millet, Hungarian ..... Strafford Co. Grain Mill, Rochester	A	98.36	S	80
8033	Millet, Hungarian ..... A. J. Turcotte, Newmarket	S	98	9	90
7869	Millet, Hungarian (5075) ..... John B. Varick Co., Manchester	S	99.14	S	87
7870	Millet, Hungarian (6663) ..... John B. Varick Co., Manchester	S	99.54	64.5	82
8131	Millet, Japanese (1028) ..... Abbott Grocery Co., Keene	96.11	97.31	S	90
8144	Millet, Japanese (2929) ..... P. E. Belisle, Hillsborough	S	98.79	S	90
8064	Millet, Japanese ..... Belknap Co. Farmers' Exc., Laconia	87.97	97.52	S	85
7986	Millet, Japanese ..... Bell Hardware Co., Derry	95.68	98	S	90
8000	Millet, Japanese ..... P. W. Bragg, Farmington	S	97	S	85
8199	Millet, Japanese ..... F. P. Brown, Whitefield	S	97	S	90
8105	Millet, Japanese (Fancy) ..... W. B. Brown, Ashland	95.25	98	S	90
8086	Millet, Japanese (3224) ..... Chase Grain Mill, Plymouth	S	98.19	69	82
8187	Millet, Japanese (1024) ..... F. W. Clark, Wilton	S	98.95	S	84
8232	Millet, Japanese (30702) ..... Clark & Richardson, Inc., Lisbon	96.98	97.78	S	87
8208	Millet, Japanese (44120) ..... G. B. Currier Co., Inc., Colebrook	S	97.53	71	85
8213	Millet, Japanese ..... G. B. Currier Co., Inc., Colebrook	S	97.68	55.5	90

A=Above S=Satisfactory

SEED INSPECTION, 1931 — Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guaranteed	Found	Guaranteed
8190	Millet, Japanese ..... J. Cushing Co., Milford	S	96.50	S	85
7889	Millet, Japanese (44107) ..... J. Cushing Co., Nashua	S	97.30	S	90
7953	Millet, Japanese (Fancy) ..... S. A. Dow & Son, North Hampton	96.37	98	S	90
8003	Millet, Japanese (Fancy) ..... E. C. Foss & Co., Rochester	S	97	S	90
8096	Millet, Japanese ..... Gammons Co., Plymouth	S	97.52	71	85
8037	Millet, Japanese (Fancy) ..... John H. Griffin, Newmarket	A	97	S	90
7900	Millet, Japanese ..... Hill Hardware & Paint Co., Nashua	90.80	98	60	80
8161	Millet, Japanese (Fancy) ..... Hopkins Brothers & Belcher, Greenfield	S	98	S	90
8157	Millet, Japanese (39064) ..... E. C. & W. L. Hopkins, Inc., Greenfield	S	98.28	S	89
8073	Millet, Japanese ..... E. J. Keegan & Co., Franklin	96.14	98	S	88
8107	Millet, Japanese (Fancy) ..... Meredith Grain Co., Meredith	94.97	98	S	90
7924	Millet, Japanese (4495) ..... Merrimack Farmers' Exc., Inc., Manchester	94.18	95.90	S	94
8054	Millet, Japanese ..... J. H. Morrill, Laconia	S	98.25	S	89
8089	Millet, Japanese (Fancy) ..... Muzzey & Hopkins, Lakeport	96.35	98	S	90
8242	Millet, Japanese ..... Pike & Gale, Littleton	S	97.50	S	90
8152	Millet, Japanese (4482) ..... W. N. Potter Grain Stores, Inc., Winchester	S	96.66	S	90
7964	Millet, Japanese (Fancy) ..... S. A. Schurman & Son, Portsmouth	S	98	S	90
8011	Millet, Japanese (44118) ..... J. H. Seavey, Dover	S	96.57	S	85
8197	Millet, Japanese ..... Frank Smith Co., Lancaster	S	97.81	S	87
8077	Millet, Japanese ..... C. P. Stevens Co., Franklin	S	96.20	75	90
8020	Millet, Japanese ..... Strafford Co. Grain Mill, Rochester	S	97.52	70	85
7911	Millet, Japanese (44109) ..... Thompson & Hoague Co., Concord	S	96	S	91
8031	Millet, Japanese ..... A. J. Turcotte, Newmarket	S	95	63	86
7868	Millet, Japanese (1024) ..... John B. Varick Co., Manchester	S	98.95	S	84
7943	Millet, Japanese (1028) ..... W. A. Young, Exeter	95.52	97.31	77	90
8035	Mixture, Hayland (No. 3) ..... Frank Pearson, Stratham	S	98.80	A	83
8069	Oats (Barco Brand) ..... Albert H. Barney, Franklin	S	99.50	S	96
8067	Oats (Mammoth Cluster) ..... Belknap Co. Farmers' Exc., Laconia	S	99	S	99

A=Above S=Satisfactory

SEED INSPECTION, 1931 — Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guaranteed	Found	Guaranteed
8034	Oats (Swedish Type) ..... Harry G. Brierley, Stratham	S	99.50	S	94
8081	Oats (Wirthmore Fancy, Northern Grown) ..... Chase Grain Mill, Plymouth	S	99	S	97
8186	Oats (Heavy Domestic) ..... F. W. Clark, Wilton	S	98.20	S	92
8230	Oats (Fancy Swedish) ..... G. F. Clement & Son, Lisbon	S	99	S	95
8216	Oats (Xtragood) ..... G. B. Currier Co., Inc., Colebrook	S	98	S	97
7987	Oats (Ohio 40-42 lbs.) ..... S. A. Dow & Son, North Hampton	97.78	....	90.5	....
8171	Oats ..... J. H. Fitzgerald, East Jaffrey	S	99.30	S	91
8029	Oats (Abundance) ..... John H. Griffin, Newmarket	S	99	S	99
8163	Oats (Granite State) ..... Hopkins Bros. & Belcher, Greenfield	S	93	S	92
8006	Oats (Pennant) ..... J. Jones & Son, Alton	S	99.50	S	96
8098	Oats (Fancy Swedish Selected) ..... Meredith Grain Warehouse, Meredith	S	99	S	98
7977	Oats (Swedish Select) ..... Merrimack Farmers' Exc., Inc., Derry	S	99	S	95
7984	Oats (Natural) ..... Merrimack Farmers' Exc., Inc., Derry	S	95	S	95
7927	Oats (Swedish Type) ..... J. J. Moreau & Son, Manchester	S	98	S	90
8240	Oats (Pennant) ..... Pike & Gale, Littleton	S	99.50	S	98
8100	Oats (Excelsior) ..... C. N. Roberts, Meredith	S	98	S	95
8043	Oats (White Mtn.) ..... H. C. Sanborn, Laconia	S	99	S	95
7993	Oats (2140, Swedish Type) ..... J. H. Seavey, Dover	S	99	90	98
8055	Oats (73-14) ..... C. P. Stevens Co., Franklin	S	99	S	90
7886	Oats (5323, Fancy Selected) ..... John B. Varick Co., Manchester	S	98.28	S	92
7967	Oats (Pennant) ..... B. M. Varrill Grain Co., Portsmouth	S	99.50	S	98
7990	Rape (Dwarf Essex) ..... F. W. Neal & Co., Dover	S	99	S	94
8076	Rape (Dwarf Essex, 5-9-17) ..... C. P. Stevens Co., Franklin	S	98	S	90
8130	Red Clover (5331, Liberty Medium) .... Abbott Grocery Co., Keene	S	99	S	88
8065	Red Clover (Medium) ..... Belknap Co. Farmers' Exc., Laconia	S	99.18	A	86
8202	Red Clover (2456, Medium Pine Tree) F. P. Brown, Whitefield	S	99	A	83
8114	Red Clover (White Mtn., Extra Fancy, Medium) ..... W. B. Brown, Ashland	A	99	S	93
8116	Red Clover (Pine Tree) ..... W. B. Brown, Ashland	S	99.75	82.5	94
8082	Red Clover (9304, Fullworth Medium) Chase Grain Mill, Plymouth	S	99.66	S	90

A=Above S=Satisfactory

SEED INSPECTION, 1931 — Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guaranteed	Found	Guaranteed
8231	Red Clover (Fullworth ..... Clark & Richardson, inc., Lisbon	S	99.66	S	90
8246	Red Clover (24650, Medium Pine Tree) G. F. Clement & Son, Lisbon	S	99.40	S	94
7970	Red Clover (Pan American, Imported) R. L. Costello, Portsmouth	S	98	S	90
8214	Red Clover (2446, Ace, Medium) ..... G. B. Currier Co., Inc., Colebrook	S	98.50	S	90
8137	Red Clover (24420, Special Domestic) J. Cushing Co., Keene	94.25	96	S	90
8193	Red Clover (24122, Medium) ..... J. Cushing Co., Milford	S	98.85	A	82
7895	Red Clover (Medium Ace, 248948) .... J. Cushing Co., Nashua	A	98	S	92
8179	Red Clover (Northern European, XXX) J. Cushing Co., Peterboro	S	98.80	S	90
8183	Red Clover (24890, Medium Ace) ..... J. Cushing Co., Peterboro	A	98	S	92
8237	Red Clover (Pan American) ..... The Depot Store, Littleton	S	99	S	90
7950	Red Clover (5067, Fancy Domestic).... S. A. Dow & Son, North Hampton	S	99.10	S	89
8136	Red Clover ..... George H. Eames & Son, Keene	S	99.50	S	94
8166	Red Clover (White Mtn., Extra Fancy Medium) ..... J. H. Fitzgerald, East Jaffrey	S	99.50	S	95
8005	Red Clover (Pan American, French).... E. C. Foss Co., Rochester	S	98	39	90
8143	Red Clover (White Mtn., Medium Extra Fancy) ..... Goodnow, Derby & Harlow, Henniker	S	99	S	94
8093	Red Clover (5386, Liberty) ..... C. J. Goss, Lakeport	98.59	99.24	A	85
8038	Red Clover (24650, Medium) ..... John H. Griffin, Newmarket	S	99.40	S	94
8196	Red Clover (Medium, Pine Tree) ..... Hatch Hardware Co., Milford	S	99.28	S	95
7893	Red Clover (24440) ..... Hill Hardware & Paint Co., Nashua	S	99.18	S	86
8128	Red Clover (XXX) ..... Holbrook Grocery Co., Keene	S	99.78	S	98
8222	Red Clover (2452, Med. White Mtn., Extra Fancy) ..... Holbrook Grocery Co., Woodsville	S	99	A	84
8225	Red Clover (XXX) ..... Holbrook Grocery Co., Woodsville	A	97	S	92
8165	Red Clover (Pan American, Domestic) Hopkins Bros. & Belcher, Greenfield	96.43	98	75.5	92
8156	Red Clover (24706, Native Medium Pine Tree) ..... E. C. & W. L. Hopkins, Inc., Greenfield	S	99.26	A	80
8103	Red Clover (Pan American) ..... Hosmer Brothers, Tilton	S	99	66.5	88
7914	Red Clover (24722, Medium Pine Tree) Manchester Hardware Co., Manchester	S	99.44	S	94
8106	Red Clover (Pan American Domestic) Meredith Grain Co., Meredith	98.25	99	S	90

A=Above S=Satisfactory

SEED INSPECTION, 1931 — Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guaranteed	Found	Guaranteed
7923	Red Clover (23703, Mammoth Pine Tree) Merrimack Farmers' Exc., Inc., Manchester	S	99.48	S	93
7931	Red Clover (24733, Medium Pine Tree Merrimack Farmers' Exc., Inc., Manchester	S	99.38	S	94
8070	Red Clover (XXX) Merrimack Fuel & Feed Co., Franklin	A	98	54	90
7934	Red Clover (Pan American, Imported) J. J. Moreau & Son, Manchester	S	99	S	84
8053	Red Clover (24706, Medium) J. H. Morrill, Laconia	S	99.26	A	80
7896	Red Clover (Pan American) Nashua Grain Co., Nashua	S	98	81	90
8010	Red Clover (Pan American Domestic) F. W. Neal & Co., Dover	S	98.50	52.5	90
8206	Red Clover (2443, Medium Pine Tree) D. A. Noyes & Son, Colebrook	S	99	A	83
8207	Red Clover (2459, Medium Ace) D. A. Noyes & Son, Colebrook	S	99.18	A	83
7974	Red Clover (Pan American, French) W. O. Patten, Londonderry	S	99.25	S	90
7908	Red Clover (Pan American) Peterson's Hardware Co., Nashua	S	98	S	90
8241	Red Clover (Pan American, Domestic) Pike & Gale, Littleton	S	99	S	90
8078	Red Clover (Medium) J. P. Pitman & Co., Laconia	99.52	....	32	....
8148	Red Clover (24940, Medium Ace) W. N. Potter Grain Stores, Inc., Winchester	S	98.30	S	92
8205	Red Clover (24365, Medium Ace) Frank Smith Co., Lancaster	A	98	S	90
8217	Red Clover (2446, Medium Ace) F. B. Spaulding Co., Lancaster	S	98.50	S	90
8058	Red Clover (Liberty, Medium, 5356) C. P. Stevens Co., Franklin	S	99	A	85
8021	Red Clover (Medium) Strafford Co. Grain Mill, Rochester	98.51	99.18	S	86
8046	Red Clover (Pan American, Imported) H. C. Sanborn, Laconia	S	99.25	64.5	90
7992	Red Clover (02433, Medium) J. H. Seavey, Dover	S	97.94	S	89
7936	Red Clover (24728, Medium Ace) Thompson & Hoague Co., Concord	S	98.18	S	92
7872	Red Clover (24725, Memium Pine Tree) John B. Varick Co., Manchester	S	99.28	S	95
7875	Red Clover (Pine Tree, Mammoth Native) John B. Varick Co., Manchester	S	99.25	54	92
8227	Red Clover (24997, Medium Pine Tree) Woodsville Grain Co., Woodsville	S	99.52	A	81
7948	Red Clover (Pan American, Imported) W. A. Young, Exeter	S	98	77	90
8129	Red Top (Fancy) Abbott Grocery Co., Keene	S	90	S	90
8066	Red Top (No. 1) Belknap Co. Farmers' Exc., Laconia	S	90	S	90
8007	Red Top P. W. Bragg, Farmington	S	90	68	90

A=Above S=Satisfactory

SEED INSPECTION, 1931 — Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guaranteed	Found	Guaranteed
8203	Red Top (30302, Ace) F. P. Brown, Whitefield	S	90	S	90
8110	Red Top O. A. Brown, Ashland	S	92	S	90
8115	Red Top (White Mtn., Extra Fancy). W. B. Brown, Ashland	A	93	76	92
8176	Red Top (Pan American) W. A. Bryer & Co., Peterboro	S	92	81	90
8084	Red Top (30820) Chase Grain Mill, Plymouth	86.48	92	85.5	96
8245	Red Top (Ace, Fancy) G. F. Clement & Son, Lisbon	83.23	90	76	90
7956	Red Top (Fancy) The E. G. Cole Co., Hampton	91.70	96	S	94
8024	Red Top (3987, Fancy) Freeman Corson, Rochester	S	92	71	90
7971	Red Top (Choice) R. L. Costello, Portsmouth	86.39	93	S	90
8215	Red Top (03016, Fancy Ace) G. B. Currier Co., Inc., Colebrook	S	91	S	90
7959	Red Top (30609, Fancy Ace) J. Cushing Co., Exeter	S	90	S	90
8188	Red Top (30609, Ace Medium) J. Cushing Co., Milford	S	90	S	90
7906	Red Top (30609, Fancy Ace) J. Cushing Co., Nashua	S	90	S	90
8181	Red Top (30609, Fancy Ace) J. Cushing Co., Peterboro	S	90	77	90
8238	Red Top (XX) The Depot Store, Littleton	S	85	S	90
7955	Red Top (Pan American) S. A. Dow & Son, North Hampton	A	92	S	90
8135	Red Top (White Mtn.) Geo. H. Eames & Son, Keene	S	93	S	90
8172	Red Top (White Mtn., Extra Fancy). J. H. Fitzgerald, East Jaffrey	S	95	S	90
8004	Red Top (Pan American) E. C. Foss Company, Rochester	A	92	S	90
8095	Red Top (No. 1) Gammons Co., Plymouth	S	90	S	90
8168	Red Top (30571, Fancy Pine Tree) Goodnow Bros. Co., East Jaffrey	S	92.60	S	90
8175	Red Top (30355, Fancy Pine Tree) Goodnow & Derby, Peterboro	S	93	S	90
8039	Red Top (30556, Ace) John H. Griffin, Newmarket	S	90.30	S	90
8195	Red Top (30584, Ace Fancy) Hatch Hardware Co., Milford	S	90.70	S	90
7902	Red Top Hill Hardware & Paint Co., Nashua	84.10	90	S	90
7941	Red Top (Pan American) Hilliard & Kimball, Exeter	S	92	69.5	90
8122	Red Top (XX, Fancy) Holbrook Grocery Co., Keene	S	86	S	85
8125	Red Top (XXX) Holbrook Grocery Co., Keene	A	87	70	88
8154	Red Top (30571, Pine Tree) E. C. & W. L. Hopkins, Inc., Greenfield	S	92.06	S	90

A=Above S=Satisfactory

SEED INSPECTION, 1931 — Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guaranteed	Found	Guaranteed
8118	Red Top (Pan American) ..... Hosmer Bros., Tilton	S	92	S	90
7996	Red Top (Pan American) ..... J. Jones & Son, Alton	S	92	80	90
8071	Red Top (Pan American) ..... E. J. Keegan & Co., Franklin	S	92	78	90
7926	Red Top (30582, Fancy Ace) ..... Manchester Hardware Co., Manchester	A	90.10	S	90
8102	Red Top (Pan American) ..... Meredith Grain Co., Meredith	S	92	S	90
7935	Red Top (30571, Fancy Pine Tree).... Merrimack Farmers' Exc., Inc., Manchester	S	92.60	S	90
8090	Red Top (Pan American) ..... Muzzey & Hopkins, Lakeport	S	92	78	90
7899	Red Top (Fancy) ..... Nashua Grain Co., Nashua	S	92	S	90
7907	Red Top (30588, Fancy No. 1) ..... Nashua Grain Co., Nashua	S	90	S	90
7988	Red Top (Pan American) ..... F. W. Neal & Co., Dover	S	92	80.5	90
7972	Red Top (Pan American) ..... W. F. Neal, Derry	88.99	92	S	90
7975	Red Top (Imperator) ..... W. O. Patten, Londonderry	S	90	S	90
7909	Red Top (Pan American, Fancy) ..... Peterson Hardware Co., Nashua	S	92	S	90
8087	Red Top (5244, Fancy) ..... A. M. Rand, Plymouth	S	90.70	S	90
8049	Red Top (Pan American) ..... Rand & Dearborn, Laconia	S	92	79.5	90
8045	Red Top (Fancy) ..... H. C. Sanborn, Laconia	88.91	92	S	90
7961	Red Top (Pan American) ..... S. A. Schurman & Son, Portsmouth	S	92	S	90
8015	Red Top (030195-95) ..... J. H. Seavey, Dover	S	90.20	S	90
8059	Red Top (Fancy, 5385) ..... C. P. Stevens Co., Franklin	83.10	90.70	S	90
8017	Red Top (Gem) ..... Strafford Co. Grain Mill, Rochester	S	90.40	S	90
7922	Red Top (30584, Fancy Ace) ..... Thompson & Hoague Co., Concord	A	90.70	S	90
8032	Red Top (Choice) ..... A. J. Turcotte, Newmarket	S	90	74.5	96
7864	Red Top (26144, Fancy)..... John B. Varick Co., Manchester	S	90.70	S	90
7874	Red Top (2094, Unhulled) ..... John B. Varick Co., Manchester	S	58	57	80
7880	Red Top (712355, Prime) ..... John B. Varick Co., Manchester	S	94	S	92
7882	Red Top (30584, Fancy Ace) ..... John B. Varick Co., Manchester	S	90.70	S	90
7885	Red Top (30571, Fancy Pine Tree).... John B. Varick Co., Manchester	S	92.60	S	90
8228	Red Top (030198, Ace Fancy) ..... Woodsville Grain Co., Woodsville	S	90.20	76	90

A=Above S=Satisfactory

SEED INSPECTION, 1931 — Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guaranteed	Found	Guaranteed
7945	Red Top (Eureka) ..... W. A. Young, Exeter	S	96	S	90
7890	Rye (74158, Spring) ..... J. Cushing Co., Nashua	S	96	S	85
8040	Rye (Rosen Winter) ..... John H. Griffin, Newmarket	S	98	S	90
7929	Rye, Spring ..... J. J. Moreau & Son, Manchester	S	98	67	90
8099	Rye, Spring ..... C. N. Roberts, Meredith	S	98	S	90
8198	Rye, 74317, Spring ..... Frank Smith Co., Lancaster	S	98	73	96
8075	Rye, Spring ..... C. P. Stevens Co., Franklin	S	97	66	90
7949	Soy Beans (84223, Wilson Black) ..... Merrimack Farmers' Exc., Inc., Derry	S	99.50	S	87
7925	Soy Beans (83719) ..... Merrimack Farmers' Exc., Inc., Manchester	S	98.50	S	90
7873	Soy Beans (2642, Black Wilson) ..... John B. Varick Co., Manchester	S	98	S	95
8063	Sweet Clover, White ..... Belknap County Farmers' Exc., Laconia	S	99	S	82
8026	Sweet Clover, White ..... Freeman Corson, Rochester	A	96	S	90
8153	Sweet Clover, (25896, White Blossom, Pine Tree) ..... E. C. & W. L. Hopkins, Inc., Greenfield	S	99.34	S	81
7878	Sweet Clover (5151, White Blossom) John B. Varick Co., Manchester	S	99.70	A	79
8133	Timothy (Bison) ..... Abbott Grocery Co., Keene	97.02	98	75.5	90
8145	Timothy (6165, Liberty) ..... P. E. Belisle, Hillsborough	S	99.60	73.5	94.50
8147	Timothy (2931, Liberty) ..... P. E. Belisle, Hillsborough	99.10	99.60	S	92
8061	Timothy (Bay State) ..... Belknap Co. Farmers' Exc., Laconia	S	99.65	S	95
8001	Timothy ..... P. W. Bragg, Farmington	S	98	S	90
8201	Timothy (67091, Pine Tree) ..... F. P. Brown, Whitefield	S	99.60	S	94
8104	Timothy (Pine Tree) ..... O. A. Brown, Ashland	S	99.65	S	95
8113	Timothy (White Mtn., Extra Fancy) W. B. Brown, Ashland	S	99.65	S	95
8177	Timothy (Pan American) ..... W. A. Bryer & Co., Peterboro	S	99.60	S	90
8079	Timothy (30533) ..... Chase Grain Mill, Plymouth	S	99.75	S	93
8184	Timothy (66729, Pine Tree) ..... F. W. Clark, Wilton	S	99.65	S	95
8244	Timothy (69638, Bison)..... G. F. Clement & Son, Lisbon	S	98	S	90
8022	Timothy (5148, Liberty) ..... Freeman Corson, Rochester	S	99.60	S	92
7968	Timothy (Pine Tree) ..... R. L. Costello, Portsmouth	A	99	S	90

A=Above S=Satisfactory

SEED INSPECTION, 1931 — Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guaranteed	Found	Guaranteed
7958	Timothy (66955, Bison) ..... J. Cushing Co., Exeter	S	98.10	S	92
8191	Timothy (66956, Pine Tree) ..... J. Cushing Co., Milford	S	99.65	S	94
7904	Timothy (66956, Pine Tree) ..... J. Cushing Co., Nashua	S	99.65	S	94
8178	Timothy (67440, Monadnock) ..... J. Cushing Co., Peterboro	S	99.60	S	94
8180	Timothy (66904) ..... J. Cushing Co., Peterboro	S	98	S	91
8182	Timothy (67541, Special) ..... J. Cushing Co., Peterboro	A	97	S	90
8211	Timothy (67109, Special) ..... G. B. Currier Co., Colebrook	S	97	S	91
8212	Timothy (67100, XX) ..... G. B. Currier Co., Inc., Colebrook	A	98	S	91
8239	Timothy (Gold Medal) ..... The Depot Store, Littleton	S	99.80	S	90
7951	Timothy (Pan American) ..... S. A. Dow & Son, North Hampton	S	99.60	S	90
7983	Timothy (Pan American) ..... W. E. Dunbar Sons, Manchester	S	99.60	S	90
8134	Timothy (White Mtn.) ..... Geo. H. Eames & Son, Keene	S	99.65	S	95
7999	Timothy (Pan American) ..... E. C. Foss Co., Rochester	S	99.60	S	90
8097	Timothy (68652, Bison) ..... Gammons Co., Plymouth	S	98	S	90
8167	Timothy (Monadnock) ..... Goodnow Bros. Co., East Jaffrey	S	99.60	S	90
8170	Timothy (6604, Liberty) ..... Goodnow & Derby, Peterboro	S	99.60	S	95.50
8174	Timothy (Pan American) ..... Goodnow & Derby, Peterboro	S	99.60	82	90
8142	Timothy (67024, Pine Tree) ..... Goodnow, Derby & Harlow, Henniker	S	99.60	S	94
8092	Timothy (5117, Liberty) ..... C. J. Goss, Lakeport	S	99.60	S	90
8041	Timothy ..... John H. Griffin, Newmarket	S	99.50	87	95
8194	Timothy (66729, Pine Tree) ..... Hatch Hardware Co., Milford	S	99.65	S	95
7888	Timothy (66652, Gem) ..... Hill Hardware & Paint Co., Nashua	S	98	S	90
7940	Timothy (Pine Tree) ..... Hilliard & Kimball, Exeter	S	99.65	S	95
8120	Timothy (XXX) ..... Holbrook Grocery Co., Keene	S	99	S	93
8121	Timothy (Monadnock) ..... Holbrook Grocery Co., Keene	S	99.50	S	94
8126	Timothy (White Mtn.) ..... Holbrook Grocery Co., Keene	S	99.85	S	95
8127	Timothy (67024, Pine Tree) ..... Holbrook Grocery Co., Keene	S	99.60	S	94
8220	Timothy (67077, White Mtn., Extra Fancy) ..... Holbrook Grocery Co., Woodsville	S	99.65	S	95
8223	Timothy (67090, Pine Tree) ..... Holbrook Grocery Co., Woodsville	S	99.60	S	94

A=Above S=Satisfactory

SEED INSPECTION, 1931 — Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guaranteed	Found	Guaranteed
8224	Timothy (67109, Special) ..... Holbrook Grocery Co., Woodsville	S	97	S	91
8164	Timothy (Pan American) ..... Hopkins Bros. & Belcher, Greenfield	S	99.60	S	90
8160	Timothy (66800, Pine Tree) ..... E. C. & W. L. Hopkins, Inc., Greenfield	S	99.60	S	94
7997	Timothy (Pan American) ..... J. Jones & Son, Alton	S	99.60	S	90
7998	Timothy (Bison) ..... J. Jones & Son, Alton	S	98	S	90
8074	Timothy (Pan American) ..... E. J. Keegan & Co., Franklin	S	99.60	76.5	90
7957	Timothy (68652, Gem) ..... J. A. Lane & Co., Hampton	S	98	S	90
7915	Timothy (66772, Pine Tree) ..... Manchester Hardware Co., Manchester	S	99.60	S	94
8109	Timothy (Pan American) ..... Meredith Grain Co., Meredith	S	99.60	S	90
7978	Timothy (66274, Pine Tree) ..... Merrimack Farmers' Exc., Inc., Derry	S	99.60	S	95
7932	Timothy (Pan American) ..... J. J. Moreau & Son, Manchester	S	99.60	S	90
8050	Timothy (Pine Tree, 66794) ..... J. H. Morrill, Laconia	S	99.65	S	95
8091	Timothy (Pan American) ..... Muzzey & Hopkins, Lakeport	S	99.50	S	90
7892	Timothy (66294, Bay State) ..... Nashua Grain Co., Nashua	S	99.65	S	95
7898	Timothy (Pan American) ..... Nashua Grain Co., Nashua	S	99.60	S	90
8008	Timothy (Pan American) ..... F. W. Neal & Co., Dover	S	99.60	S	90
7891	Timothy (Pan American) ..... Peterson Hardware Co., Nashua	S	99.60	S	92
8149	Timothy (66979, Pine Tree) ..... W. N. Potter Grain Stores, Inc., Winchester	S	99.60	S	95
8088	Timothy (5380, Liberty) ..... A. M. Rand, Plymouth	S	99.60	S	90
8044	Timothy (Pan American) ..... H. C. Sanborn, Laconia	S	99.60	S	90
7960	Timothy (Pan American) ..... S. A. Schurman & Son, Portsmouth	S	99.60	S	90
8014	Timothy (67004) ..... J. H. Seavey, Dover	S	99.65	S	95
8060	Timothy (66-559, Ace) ..... C. P. Stevens Co., Franklin	S	99.60	S	90
8016	Timothy (Bay State) ..... Strafford Co. Grain Mill, Rochester	S	99.65	S	95
7919	Timothy (66729, Pine Tree) ..... Thompson & Hoague Co., Concord	S	99.65	S	95
7920	Timothy (66493, Pine Tree) ..... Thompson & Hoague Co., Concord	S	99.60	S	94
7921	Timothy (66717 Pine Tree) ..... Thompson & Hoague Co., Concord	S	99.65	S	95
8028	Timothy ..... A. J. Turcotte, Newmarket	S	98	S	91

A=Above S=Satisfactory

SEED INSPECTION, 1931 — Continued

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		Found	Guaranteed	Found	Guaranteed
7866	Timothy (66729, Pine Tree) ..... John B. Varick Co., Manchester	S	99.65	S	95
7884	Timothy (5303, Liberty) ..... John B. Varick Co., Manchester	S	99.60	S	90
8111	Timothy (66729, Pine Tree) ..... Weeks & Smith, Meredith	S	99.65	S	95
8229	Timothy (67021, Pine Tree) ..... Woodsville Grain Co., Woodsville	S	99.60	S	94
7944	Timothy (69865) ..... W. A. Young, Exeter	A	98	S	95
7946	Timothy (Pan American) ..... W. A. Young, Exeter	S	99.60	S	90
7876	Vetch (5145, Winter) ..... John B. Varick Co., Manchester	S	99	A	78
8221	Wheat (67522, Spring) ..... Holbrook Grocery Co., Woodsville	S	99.78	S	97
8027	White Clover (2689) ..... Freeman Corson, Rochester	96.04	97.35	S	84
8139	White Clover (26774) ..... J. Cushing Co., Keene	S	98	S	90
7938	White Clover (Prime) ..... Hilliard & Kimball, Exeter	S	96.45	S	91
7937	White Clover (26737) ..... Manchester Hardware Co., Manchester	S	97.15	A	70
7928	White Clover ..... J. J. Moreau & Son, Manchester	S	97.82	S	80
7867	White Clover (26738) ..... John B. Varick Co., Manchester	S	98.20	S	93
7883	White Clover (2406, Fancy) ..... John B. Varick Co., Manchester	S	99.07	A	77

A=Above S=Satisfactory

SUMMARY TABLE

Showing General Results of Seed Inspection Work
for the year ending June 30, 1931

Kind of Seed	Number of Samples	Purity Compared to Guarantee			No guarantee	Germination Compared to Guarantee			No guarantee
		Above	Satisfactory	Below		Above	Satisfactory	Below	
Alfalfa	9	0	9	0	0	4	5	0	0
Alsike Clover	36	3	32	1	0	4	25	7	0
Barley	12	0	12	0	0	0	11	1	0
Bluegrass, Kentucky	5	0	5	0	0	0	1	4	0
Buckwheat	3	0	3	0	0	0	3	0	0
Canada Field Peas	2	0	2	0	0	0	2	0	0
Millet, Golden	1	0	1	0	0	0	0	1	0
Millet, Hungarian	36	4	25	7	0	0	26	10	0
Millet, Japanese	37	1	24	12	0	0	28	9	0
Mixture, Hayland	1	0	1	0	0	1	0	0	0
Oats	23	0	22	0	1	0	21	1	1
Rape	2	0	2	0	0	0	2	0	0
Red Clover	58	6	46	5	1	11	36	10	1
Red Top	61	6	47	8	0	0	44	17	0
Rye	6	0	6	0	0	0	3	3	0
Soy Beans	3	0	3	0	0	0	3	0	0
Sweet Clover	4	1	3	0	0	1	3	0	0
Timothy	77	4	71	2	0	0	72	5	0
Vetch	1	0	1	0	0	1	0	0	0
Wheat	1	0	1	0	0	0	1	0	0
White Clover	7	0	6	1	0	2	5	0	0
Total	385	25	322	36	2	24	291	68	2